

Ifw



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Rothberg et al.

SERIAL NUMBER: 10/788,529

EXAMINER: Not Yet Assigned

FILING DATE: February 26, 2004

ART UNIT: 1645

FOR: *Method of Sequencing a Nucleic Acid*

MAIL STOP AMENDMENT

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

TRANSMITTAL LETTER

Transmitted herewith for filing in the present application are the following documents:

1. Information Disclosure Statement (2 pages), in duplicate;
2. Modified Form 1449/PTO (10 pages), in duplicate;
3. Cited References B18-B89 and C67-C72; and
4. Return Postcard.

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (212) 935-3000.

The Commissioner is authorized to charge any fees that may be due to the undersigned's account, Deposit Account No. 50-0311 Ref. No. 21465-501 CIP DIV. Please address all correspondence to customer number 35437. A duplicate copy of this transmittal letter is enclosed herewith.

Respectfully submitted,

Ivor Elrifi, Reg. No. 39,529
Caryn DeHoratius, Reg. No. 45,881
Attorneys for Applicants
c/o MINTZ, LEVIN, COHN, FERRIS
GLOVSKY & POPEO P.C.
Chrysler Center
666 Third Avenue, 24th Floor
New York, New York 10017
Phone: (212) 935-3000
Fax: (212) 983-3115

Dated: May 12, 2005

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

APPLICANTS: Rothberg et al.

SERIAL NUMBER: 10/788,529

EXAMINER: Not Yet Assigned

FILING DATE: February 26, 2004

ART UNIT: 1645

FOR: *Method of Sequencing a Nucleic Acid***MAIL STOP AMENDMENT**

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, Applicant hereby makes of record the documents listed on the attached modified Form PTO-1449 (submitted in duplicate) in the above-identified application. Copies of the foreign patent documents and non-patent literature documents are submitted herewith. Copies of the U.S. patents and published applications are not required to be submitted since this application was filed after June 30, 2003 (see MPEP § 609 (III)(A)(2)).

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits for the above-identified application. Accordingly, no fee or certification is believed to be required.

It is respectfully requested that the Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims. It is also respectfully requested that the Examiner initial, sign and date, and return a copy of the signed modified Form PTO-1449 with the next U.S. Patent and Trademark Office communication, to evidence that the cited information has been fully considered by the U.S. Patent and Trademark Office during the examination of this application.

By submitting this Information Disclosure Statement, the Applicants make no representation that: (1) a search has been performed, the extent of any search performed, or that more relevant information does not exist; (2) the information cited in the Statement is, or is

considered to be, material to patentability as defined in 37 C.F.R. §1.56(b); and (3) the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

The order of presentation of the references should not be construed as an indication of the importance of the references. The Examiner is urged to form his/her own conclusion regarding the relevance of the cited information.

Please charge any fees that may be due, or credit any overpayment of same, to Deposit Account No. 50-0311, Reference No. 21465-501 CIP DIV.

Respectfully submitted,



Ivor Elrifi, Reg. No. 39,529
Caryn DeHoratius, Reg. No. 45,881
Attorneys for Applicants
c/o MINTZ, LEVIN, COHN, FERRIS
GLOVSKY & POPEO P.C.
Chrysler Center
666 Third Avenue, 24th Floor
New York, New York 10017
Phone: (212) 935-3000
Fax: (212) 983-3115

Dated: May 12, 2005

MINTZ LEVIN
COHN FERRIS
GLOVSKY AND
POPEO PC

Boston
Washington
Reston
New York
Stamford
Los Angeles
London

Chrysler Center
666 Third Avenue
New York, New York 10017
212 935 3000
212 983 3115 fax
www.mintz.com

COPY

Caryn DeHoratius, Ph.D.
Attorney

Direct dial 212-692.6240
cdhoratius@mintz.com

May 11, 2005



VIA FEDERAL EXPRESS

Ms. Amy Hunt
Landon IP
1700 Diagonal Road, Suite 450
Arlington, VA 22314

Hand Carry to The United States Patent & Trademark Office
Group Art Unit: 1645; Patent Application No.: 10/788,529;
Filed: March 21, 2001; Title: *Method of Sequencing a Nucleic Acid*
Our Reference No.: 21465-501 CIP DIV

Dear Ms. Hunt:

Would you kindly hand carry the enclosed Information Disclosure Statement, and accompanying documents to the United States Patent & Trademark Office on Thursday, May 12, 2005? The accompanying documents can be found enclosed with this letter, and the cited references are enclosed in two boxes sent under separate cover. Please confirm by telephone that you have done so, and forward your invoice to me at the above New York address for this service.

If you have any questions, please do not hesitate to give me a call at (212) 692-6240.

Best regards,

Caryn DeHoratius

CDH:sbk
Enclosures

Hand Delivery for May 12, 2005

Attorney Docket No.: 21465-501 CIP DIV

Page 1 of 10

Please type a plus sign (+) in this



PTO/SB (12-97)
OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Modified Form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Application Number	10/788,529
Filing Date	02/26/04
First Named Inventor	Rothberg
Group Art Unit	1645
Examiner Name	Not Yet Assigned
Attorney Docket Number	21465-501 CIP DIV

U.S. PATENT DOCUMENTS

Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate
	A1	4,811,218	03/07/89	Hunkapiller et al.			
	A2	4,863,849	09/05/89	Melamede			
	A3	5,171,534	12/15/92	Smith et al.			
	A4	5,602,509	04/12/94	Cheeseman			
	A5	5,445,934	08/29/95	Fodor et al.			
	A6	5,525,464	06/11/96	Drmanac and Crkvenjakov			
	A7	5,604,097	02/18/97	Brenner			
	A8	5,648,245	07/15/97	Fire and Xu			
	A9	5,714,320	02/03/98	Kool			
	A10	5,728,529	03/17/98	Metzker and Gibbs			
	A11	5,800,992	09/01/98	Fodor et al.			
	A12	5,821,058	10/13/98	Smith et al.			
	A13	5,830,662	12/03/98	Soares and Efstratiadis			
	A14	5,834,252	11/10/98	Stemmer and Lipshutz			
	A15	5,846,721	12/08/98	Soares and Bonaldo			
	A16	5,846,727	12/08/98	Soper et al.			
	A17	5,854,033	12/29/98	Lizardi			
	A18	5,851,772	12/22/98	Mirzabekov et al.			
	A19	5,871,697	02/16/99	Rothberg et al.			
	A20	5,882,874	03/16/99	Fisher			
	A21	5,928,905	07/29/99	Stemmer and Lipshutz			
	A22	4,971,903	11/20/90	Hyman			
	A23	4,683,195	07/28/87	Mullis et al.			
	A24	4,683,202	07/28/87	Mullis			
	A25	4,822,746	04/18/89	Walt			
	A26	4,965,188	10/23/90	Mullis et al.			
	A27	5,114,984	05/19/92	Branch et al.			
	A28	5,143,853	09/01/92	Walt			
	A29	5,244,636	09/14/93	Walt et al.			
	A30	5,250,264	10/05/93	Walt et al.			
	A31	5,252,494	10/12/93	Walt			
	A32	5,254,477	10/19/93	Walt			

U.S. PATENT DOCUMENTS							
Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate
	A33	5,298,741	03/29/94	Walt et al.			
	A34	5,320,814	06/14/94	Walt et al.			
	A35	5,405,746	04/11/95	Uhlen			
	A36	5,429,807	07/04/95	Matson et al.			
	A37	5,436,327	07/25/95	Southern et al.			
	A38	5,512,490	04/30/96	Walt et al.			
	A39	5,534,424	07/09/96	Uhlen et al.			
	A40	5,633,972	05/27/97	Walt et al.			
	A41	5,700,637	12/23/97	Southern			
	A42	5,716,785	02/10/98	Van Gelder et al.			
	A43	5,744,305	04/28/98	Fodor et al.			
	A44	5,750,341	05/12/98	Macevicz			
	A45	5,770,367	06/23/98	Southern et al.			
	A46	5,780,231	07/14/98	Brenner			
	A47	5,795,716	08/18/98	Chee et al.			
	A48	5,814,524	09/29/98	Walt et al.			
	A49	5,871,928	02/16/99	Fodor et al.			
	A50	5,891,636	04/06/99	Van Gelder et al.			
	A51	5,900,481	05/04/99	Lough et al.			
	A52	5,962,228	10/05/99	Brenner			
	A53	6,013,445	01/11/00	Albrecht et al.			
	A54	6,023,540	02/08/00	Walt et al.			
	A55	6,040,193	03/21/00	Winkler et al.			
	A56	6,054,270	04/25/00	Southern			
	A57	6,080,585	06/27/00	Southern et al.			
	A58	6,114,114	09/05/00	Seilhamer et al.			
	A59	6,133,436	10/17/00	Koster et al.			
	A60	6,136,543	10/24/00	Anazawa et al.			
	A61	6,150,095	11/21/00	Southern et al.			
	A62	6,200,737	03/13/01	Walt et al.			
	A63	6,210,891	04/03/01	Nyren et al.			
	A64	6,210,896	04/03/01	Chan			
	A65	6,210,910	04/03/01	Walt et al.			
	A66	6,218,111	04/17/01	Southern et al.			
	A67	6,221,653	04/24/01	Caren et al.			
	A68	6,255,476	07/03/01	Vinayak et al.			
	A69	6,258,568	07/10/01	Nyren			
	A70	6,263,286	07/17/01	Gilmanshin et al.			
	A71	6,306,597	10/23/01	Macevicz			
	A72	6,307,039	10/23/01	Southern			
	A73	6,333,155	12/25/01	Lockhart et al.			
	A74	6,355,420	03/12/02	Chan			

U.S. PATENT DOCUMENTS							
Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate
	A75	6,355,431	03/12/02	Chee et al.			
	A76	2001/0006630	07/05/01	Yacoby-Zeevi			
	A77	2001/0041335	11/15/01	Goldberg et al.			
	A78	2002/0009729	01/24/02	McGall et al.			
	A79	2002/0022721	02/21/02	Trulson et al.			
	A80	6,146,593	11/14/00	Pinkel et al.			
	A81	5,445,971	08/95	Rohr			
	A82	5,919,673	07/99	Wong et al.			
	A83	5,888,819	03/30/99	Goelet et al.			
	A84	2003/0082566	05/01/03	Sylvan			
	A85	6,225,061	05/01/01	Becker et al.			
	A86	5,114,864	05/19/92	Walt et al.			
	A87	5,244,813	09/14/93	Walt et al.			
	A88	5,354,825	10/11/94	Klainer et al.			
	A89	5,480,723	01/02/96	Klainer et al.			
	A90	5,700,897	12/23/97	Klainer et al.			
	A91	5,837,832	11/17/98	Chee et al.			
	A92	5,856,104	01/05/99	Chee et al.			
	A93	5,861,242	01/19/99	Chee et al.			
	A94	5,974,164	10/26/99	Chee			
	A95	6,013,440	01/11/00	Lipshutz et al.			
	A96	6,013,449	01/11/00	Hacia et al.			
	A97	6,027,880	02/22/00	Cronin et al.			
	A98	6,040,138	03/21/00	Lockhart et al.			
	A99	6,050,719	04/18/00	Winkler et al.			
	A100	6,156,501	12/05/00	McGall et al.			
	A101	6,228,575	05/08/01	Gingeras et al.			
	A102	6,238,862	05/29/01	McGall et al.			
	A103	6,242,180	06/05/01	Chee			
	A104	6,266,459	07/24/01	Walt et al.			
	A105	6,280,950	08/28/01	Lipshutz et al.			
	A106	6,285,807	09/04/01	Walt et al.			
	A107	6,306,643	10/23/01	Gentalen et al.			
	A108	6,309,823	10/30/01	Cronin et al.			
	A109	6,327,410	12/04/01	Walt et al.			
	A110	6,342,355	01/29/02	Hacia et al.			
	A111	6,344,316	02/05/02	Lockhart et al.			
	A112	6,368,799	04/09/02	Chee			
	A113	6,377,721	04/23/02	Walt et al.			
	A114	6,396,995	05/28/02	Stuelpnagel et al.			
	A115	6,406,845	06/18/02	Walt et al.			
	A116	6,410,229	06/25/02	Lockhart et al.			

U.S. PATENT DOCUMENTS							
Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate
	A117	6,429,027	08/06/02	Chee et al.			
	A118	6,440,677	08/27/02	Lipshutz et al.			
	A119	6,468,744	10/22/02	Cronin et al.			
	A120	6,482,593	11/19/02	Walt et al.			
	A121	6,519,583	02/11/03	Koleszar et al.			
	A122	6,544,732	04/08/03	Chee et al.			
	A123	6,548,257	04/15/03	Lockhart et al.			
	A124	6,576,425	06/10/03	McGall et al.			
	A125	6,607,887	08/19/03	Chee			
	A126	6,611,828	08/26/03	Koleszar et al.			
	A127	6,620,584	09/16/03	Chee et al.			
	A128	6,643,634	11/04/03	Koleszar et al.			
	A129	6,663,832	12/16/03	Lebl et al.			
	A130	6,667,159	12/23/03	Walt et al.			
	A131	6,705,754	03/16/04	Winkler et al.			
	A132	6,720,007	04/13/04	Walt et al.			
	A133	6,733,964	05/11/04	Chee et al.			
	A134	6,742,004	05/25/04	Sabatini et al.			
	A135	6,770,441	08/03/04	Dickinson et al.			
	A136	2001/0029049	10/11/01	Walt et al.			
	A137	2001/0053526	12/20/01	Lipshutz et al.			
	A138	2002/0001801	01/03/02	Fan et al.			
	A139	2002/0006617	01/17/02	Fan et al.			
	A140	2002/0009719	01/24/02	Walt et al.			
	A141	2002/0012913	01/31/02	Gunderson et al.			
	A142	2002/0012925	01/31/02	Chee			
	A143	2002/0012940	01/31/02	Lockhart et al.			
	A144	2002/0025520	02/28/02	Chee			
	A145	2002/0028159	03/07/02	Lebl et al.			
	A146	2002/0039728	04/04/02	Kain et al.			
	A147	2002/0044894	04/18/02	Lebl et al.			
	A148	2002/0051971	05/02/02	Stuelpnagel et al.			
	A149	2002/0071339	06/13/02	Winkler et al.			
	A150	2002/0102578	08/01/02	Dickinson et al.			
	A151	2002/0106663	08/08/02	Gentalen et al.			
	A152	2002/0122612	09/05/02	Walt et al.			
	A153	2002/0132221	09/19/02	Chee et al.			
	A154	2002/0132241	09/19/02	Fan et al.			
	A155	2002/0150909	10/17/02	Stuepnagel et al.			
	A156	2002/0172716	11/21/02	Walt et al.			
	A157	2002/0172946	11/21/02	Fan et al.			
	A158	2002/0177141	11/28/02	Chee et al.			

U.S. PATENT DOCUMENTS							
Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate
	A159	2002/0187515	12/12/02	Chee et al.			
	A160	2003/0003490	01/02/03	Fan et al.			
	A161	2003/0013114	01/16/03	Lipshutz et al.			
	A162	2003/0016897	01/23/03	Walt et al.			
	A163	2003/0064364	04/03/03	Lockhart et al.			
	A164	2003/0096239	05/22/03	Gunderson et al.			
	A165	2003/0104434	06/05/03	Fan et al.			
	A166	2003/0108867	06/12/03	Chee et al.			
	A167	2003/0134291	07/17/03	Lipshutz et al.			
	A168	2003/0157504	08/21/03	Chee et al.			
	A169	2003/0165823	09/04/03	Cronin et al.			
	A170	2003/0165830	09/04/03	Cronin et al.			
	A171	2003/0170684	09/11/03	Fan			
	A172	2003/0175773	09/18/03	Chee et al.			
	A173	2003/0207295	11/06/03	Gunderson et al.			
	A174	2003/0211489	11/13/03	Shen et al.			
	A175	2003/0215821	11/20/03	Gunderson et al.			
	A176	2003/0215841	11/20/03	Lockhart et al.			
	A177	2004/0018491	01/29/04	Gunderson et al.			
	A178	2004/0072202	04/15/04	McGall et al.			
	A179	2004/0076987	04/22/04	McGall et al.			
	A180	2004/0114456	06/17/04	Winkler et al.			
	A181	2004/0121364	06/24/04	Chee et al.			
	A182	2004/0137498	07/15/04	Fan et al.			
	A183	2004/0175718	09/09/04	Chee et al.			
	A184	2004/0185482	09/23/04	Stuelpnagel et al.			
	A185	2004/0185483	09/23/04	Stuelpnagel et al.			
	A186	2003/0027129	02/06/03	Walt et al.			

FOREIGN PATENT DOCUMENTS							
Exam Initials	Cite No.	Foreign Patent Document Office Number		Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes No	
	B1*	WO	97/41260	Genescope	11/06/97		
	B2*	WO	98/08973	Cancer Research Campaign Tech. Ltd.	03/05/98		
	B3*	WO	98/13523	Pyrosequencing AB	04/02/98		
	B4*	WO	98/44151	Glaxo Group Ltd.	10/08/98		
	B5*	WO	98/44152	Glaxo Group Ltd.	10/08/98		
	B6*	WO	98/53300	Lynx Therapeutics	11/26/98		
	B7*	WO	99/07896	CuraGen Corporation	02/18/99		
	B8*	WO	99/15702	Life Technologies, Inc.	04/01/99		
	B9*	WO	99/28494	Packard BioScience Company	06/10/99		
	B10*	WO	99/30823	Packard BioScience B.V.	06/24/99		
	B11*	WO	99/36576	Packard BioScience Company	07/22/99		

FOREIGN PATENT DOCUMENTS							
Exam Initials	Cite No.	Foreign Patent Document Office Number		Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes	Translation No
	B12*	WO	99/53102	Packard BioScience Company	10/21/99		
	B13**	WO	97/19193	Yale University	05/29/97		
	B14**	WO	97/27326	The Regents of the University of California	07/31/97		
	B15**	WO	98/50782	Trustees of Tufts College	11/12/98		
	B16**	WO	98/20019	Sequenom, Inc.	05/14/98		
	B17**	WO	98/35012	Eugene Y. Chan	08/13/98		
	B18	EP	1 090 293	Illumina, Inc.	12/29/99		
	B19	EP	1 196 630	Illumina, Inc.	10/26/00		
	B20	WO	88/05533	Kelsius, Inc.	07/28/88		
	B21	WO	93/21513	Trustees of Tufts College	10/28/93		
	B22	WO	94/12863	Trustees of Tufts College	06/09/94		
	B23	WO	95/11995	Affymax Technologies	05/04/95		
	B24	WO	97/27317	Affymetrix, Inc.	07/31/97		
	B25	WO	97/29212	Affymetrix, Inc.	08/14/97		
	B26	WO	98/18967	Affymetrix, Inc.	05/07/98		
	B27	WO	98/30883	Affymetrix, Inc.	07/16/98		
	B28	WO	98/38846	Affymetrix, Inc.	09/11/98		
	B29	WO	98/40726	Trustees of Tufts College	09/17/98		
	B30	WO	98/41657	Affymetrix, Inc.	09/24/98		
	B31	WO	98/56954	Affymetrix, Inc.	12/17/98		
	B32	WO	98/58529	Affymetrix, Inc.	12/30/98		
	B33	WO	99/14228	Affymetrix, Inc.	03/25/99		
	B34	WO	99/18434	Trustees of Tufts College	04/15/99		
	B35	WO	99/39004	Affymetrix, Inc.	08/05/99		
	B36	WO	99/45357	Trustees of Tufts College	09/10/99		
	B37	WO	00/11223	Affymetrix, Inc.	03/02/00		
	B38	WO	00/13004	Trustees of Tufts College	03/09/00		
	B39	WO	00/16101	Trustees of Tufts College	03/23/00		
	B40	WO	00/29832	Tufts University	05/25/00		
	B41	WO	00/60332	Trustees of Tufts College	10/12/00		
	B42	WO	01/12862	Illumina, Inc.	02/22/01		
	B43	WO	01/41918	Illumina, Inc.	06/14/01		
	B44	WO	01/69245	Trustees of Tufts College	09/20/01		
	B45	WO	02/28530	Trustees of Tufts College	04/11/02		
	B46	WO	02/41987	Tufts University	05/30/02		
	B47	WO	02/99982	Illumina, Inc.	12/12/02		
	B48	EP	0 373 203	Isis Innovation Limited	08/31/94		
	B49	EP	0 619 321	Affymax Technologies N.V.	01/07/99		
	B50	WO	89/10977	Isis Innovation Limited	11/16/98		
	B51	WO	98/28440	Pyrosequencing AB	07/02/99		
	B52	WO	99/05315	Medical Biosystems LTD	02/04/99		
	B53	WO	99/60007	Isis Innovation Limited	11/25/99		

FOREIGN PATENT DOCUMENTS							
Exam Initials	Cite No.	Foreign Patent Document Office Number		Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes	No
	B54	WO	99/61662	Isis Innovation Limited	12/02/99		
	B55	WO	99/66313	Pyrosequencing AB	12/23/99		
	B56	WO	99/67641	Illumina, Inc.	12/29/99		
	B57	WO	00/06770	Solexa LTD	02/10/00		
	B58	WO	00/27521	Solexa LTD	05/18/00		
	B59	WO	00/39587	Illumina, Inc.	07/06/00		
	B60	WO	00/43540	Pyrosequencing AB	07/27/00		
	B61	WO	00/44491	Illumina, Inc.	08/03/00		
	B62	WO	00/47996	Illumina, Inc.	08/17/00		
	B63	WO	00/48000	Illumina, Inc.	08/17/00		
	B64	WO	00/56455	Pyrosequencing AB	09/28/00		
	B65	WO	00/58507	Solexa LTD	10/05/00		
	B66	WO	00/60072	Medical Biosystems LTD	10/12/00		
	B67	WO	00/60114	Medical Biosystems LTD	10/12/00		
	B68	WO	00/63437	Illumina, Inc.	10/26/00		
	B69	WO	00/71243	Illumina, Inc.	11/30/00		
	B70	WO	00/71992	Illumina, Inc.	11/30/00		
	B71	WO	00/71995	Illumina, Inc.	11/30/00		
	B72	WO	00/75373	Illumina, Inc.	12/14/00		
	B73	WO	01/18524	Illumina, Inc.	03/15/01		
	B74	WO	01/24937	Pyrosequencing AB	04/12/01		
	B75	WO	01/25480	Medical Biosystems LTD	04/12/01		
	B76	WO	01/42496	Pyrosequencing AB	06/14/01		
	B77	WO	01/46675	Illumina, Inc.	06/28/01		
	B78	WO	01/57268	Illumina, Inc.	08/09/01		
	B79	WO	01/57269	Illumina, Inc.	08/09/01		
	B80	WO	01/59432	Illumina, Inc.	08/16/01		
	B81	WO	01/61043	Illumina, Inc.	08/23/01		
	B82	WO	01/85341	Pyrosequencing AB	11/15/01		
	B83	WO	02/00336	Illumina, Inc.	01/03/02		
	B84	WO	02/12897	Illumina, Inc.	02/14/02		
	B85	WO	02/16649	Illumina, Inc.	02/28/02		
	B86	WO	02/20836	Pyrosequencing AB	03/14/02		
	B87	WO	02/20837	Pyrosequencing AB	03/14/02		
	B88	WO	02/21128	Illumina, Inc.	03/14/02		
	B89	EP	0 371 437	Orion-Yhtyma Oy	02/21/96		

OTHER NON PATENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
	C1*	Baner et al., "Signal amplification of padlock probes by rolling circle replication." Nucleic Acids Research 26(22): 5073-5078 (1998).
	C2*	Barshop et al., "Luminescent immobilized enzyme test systems for inorganic pyrophosphate: Assays using firefly luciferase and nicotinamide-monomucleotide adenylyl transferase or adenosine-5'-

OTHER NON PATENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
		triphosphate sulfurylase." Analytical Biochemistry 197: 266-272 (1991).
	C3*	Brandis et al., "Slow rate of phosphodiester bond formation accounts for the strong bias that Taq DNA polymerase shows against 2', 3'-dideoxynucleotide terminators." Biochemistry 55: 2189-2200 (1990).
	C4*	Bronk et al., "Combined imaging and chemical sensing using a single optical imaging fiber." Anal. Chem. 67: 2750-2757 (1996).
	C5*	Burns et al., "An Integrated Nanoliter DNA Analysis Device." Science 282: 484-487 (1998).
	C6*	Chan and Nie, "Quantum dot bioconjugates for ultrasensitive nonisotopic detection." Scient 281: 2016-2018 (1998).
	C7*	Chee et al., "Accessing Genetic Information with High-Density DNA Arrays." Science 274(5287).
	C8*	Chiu and Christopoulos, "Hybridization Assays Using an Expressible DNA Fragment Encoding Firefly Luciferase as a label." Anal. Chem. 68: 2304-2308 (1996).
	C9*	Daubendiek and Kool, "Generation of catalytic RNAs by rolling transcription of synthetic DNA nanocircles." Nature Biotechnology 15: 273-277 (1997).
	C10*	Dickson et al., "Three-dimensional imaging of single molecules solvated in pores of poly(acrylamide) gels." Science 274(5289): 966 (1996).
	C11*	Dickson et al., "On/off blinking and switching behaviour of single molecules of green fluorescent protein." Nature 388: 355-358 (1997).
	C12*	Ferguson et al., "A fiber-optic DNA biosensor microarray for the analysis of gene expression." Nature Biotechnology 14: 1681-1684 (1996).
	C13*	Fire and Xu, "Rolling replication of short DNA circles." Proc. Natl. Acad. Sci. 92: 4641-4645 (1995).
	C14*	Ha et al., "Probing the interaction between two single molecules: Fluorescence resonance energy transfer between a single donor and a single acceptor." Proc. Natl. Acad. 93: 6264-6268 (1996).
	C15*	Hacia, "Resequencing and mutational analysis using oligonucleotide microarrays." Nature Genetics Supplement 21: 42-47 (1999).
	C16*	Hatch et al., "Rolling circle amplification of DNA immobilized on solid surfaces and its application to multiplex mutation detection." Genetic Analysis: Biomolecular Engineering 15: 35-40 (1999).
	C17*	Healey and Walt, "Fast Temporal Response Fiber-Optic Chemical Sensors Based on the Photodeposition of Micrometer-scale Polymer Arrays." Anal. Chem. 69: 2213-2216 (1997).
	C18*	Healey et al., "Photodeposition of Micrometer-Scale Polymer Patterns on Optical Imaging Fibers." Science 269: 1078-1080 (1995).
	C19*	Hengsakul and Cass, "Protein Patterning with a Photoactivatable Derivative of Biotin." Bioconjugate Chem. 7: 249-254 (1996).
	C20*	Hyman, "A New Method of Sequencing DNA." Analytical Biochemistry 174: 423-436 (1988).
	C21*	Ishijima et al., "Simultaneous observation of Individual ATPase and Mechanical Events by a Single Myosin Molecule during Interaction with Actin." Cell 92: 161-171 (1998).
	C22*	Ito et al., "Fluorescent differential display: arbitrarily primed RT-PCR fingerprinting on an automated DNA sequencer." FEBS 351: 231-236 (1994).
	C23*	Izawa et al., "Recognition Sites of 3'-OH Group by T7 RNA Polymerase and Its Application to Transcriptional Sequencing." The Journal of Biological Chemistry 273(23): 14242-14246 (1998).
	C24*	Karamohamed et al., "Production, Purification, and Luminometric Analysis of Recombinant Saccharomyces cerevisiae MET3 Adenosine Triphosphate Sulfurylase Expressed in Escherichia coli." Protein Expression and Purification 15: 381-388 (1999).
	C25*	Karamohamed and Nyren, "Real-Time Detection and Quantification of Adenosine Triphosphate Sulfurylase Activity by a Bioluminometric Approach." Analytical Biochemistry 271: 81-85 (1999).
	C26*	Keller et al., "Single-Molecule Fluorescence Analysis in Solution." Applied Spectroscopy 7(50): 823-958 (1996).
	C27*	Kievits et al., "NASBA isothermal enzymatic in vitro nucleic acid amplification optimized for the diagnosis of HIV-1 infection." Journal of Virological Methods 35: 273-286 (1991).
	C28*	Kricka, "Miniaturization of analytical systems." Clinical Chemistry 44(9): 2008-2014 (1998).
	C29*	Lander, "the New Genomics: Global Views of Biology." Science 274: 536-539 (1996).
	C30*	Lu et al., "Rolling Circle DNA Synthesis: Small Circular Oligonucleotides as Efficient Templates for DNA Polymerases." J. Am. Chem. Soc. 118: 1587-1594 (1996).
	C31*	Lizardi et al., "Mutation detection and single-molecule counting using isothermal rolling-circle

OTHER NON PATENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
		amplification." <i>Nature Genetics</i> 19: 225-232 (1998).
	C32*	Metzker et al., "Elimination of Residual Natural Nucleotides from 3'-O-Modified-dNTP Syntheses by Enzymatic Mop-Up." <i>BioTechniques</i> 25: 814-817 (1998).
	C33*	Metzker et al., "Quantitation of Mixed-Base Populations of HIV-1 Variants by Automated DNA Sequencing with BODIPY Dye-Labeled Primers." <i>BioTechniques</i> 25: 446-462 (1998).
	C34*	Munkholm and Walt, "Polymer Modification of Fiber Optic Chemical Sensors as a Method of Enhancing Fluorescence Signal for pH Measurement." <i>Anal. Chem.</i> 58: 1427-1430 (1986).
	C35*	Mooney et al., "Patterning of functional antibodies and other proteins by photolithography of silane monolayers." <i>Proc. Natl. Acad. Sci.</i> 93: 12287-12291 (1996).
	C36*	Narang et al., "Fiber Optic-based biosensor for ricin." <i>Biosensors & Bioelectronics</i> 12(9-10): 937-945 (1997).
	C37*	Nie et al., "Probing Individual Molecules with Confocal Fluorescence Microscopy." <i>Science</i> 266: 1018-1021 (1994).
	C38*	Nie and Zare, "Optical Detection of Single Molecules." <i>Annu. Rev. Biophys. Biomol. Struct.</i> 26: 567-596 (1997).
	C39*	Nilsson et al., "Padlock probes reveal single-nucleotide differences, parent of origin and in situ distribution of centromeric sequences in human chromosomes 13 and 21." <i>Nature Genetics</i> 16: 252-255 (1997).
	C40*	Nilsson et al., "Padlock Probes: Circularizing Oligonucleotides for Localized DNA Detection." <i>Science</i> 265: 2085-2087 (1994).
	C41*	Nyren, "Apyrase Immobilized on Paramagnetic Beads Used to Improve Detection Limits in Bioluminometric ATP Monitoring." <i>J. Biolumin. Chemilumin</i>
	C42*	Nyren et al., "Detection of Single-Base Changes Using a Bioluminometric Primer Extension Assay." <i>Analytical Biochemistry</i> 244: 367-373 (1997).
	C43*	Nyren et al., "Solid Phase DNA Minisequencing by an Enzymatic Luminometric Inorganic Pyrophosphate Detection Assay." <i>Analytical Biochemistry</i> 208: 171-175 (1993).
	C44*	Oker-Blom et al., "A Baculovirus-Expressed Fusion Protein Containing the Antibody-Binding Domain of Protein A and Insect Luciferase." <i>BioTechniques</i> 14(5): 800-807 (1993).
	C45*	Parthasarathy and Martin, "Synthesis of polymeric microcapsule arrays and their use for enzyme immobilization." <i>Nature</i> 369: 298-301 (1994).
	C46*	Pierce et al., "Imaging individual green fluorescent proteins." <i>Scientific Correspondence</i> .
	C47*	Pirrung and Huang, "A General method for the Spatially Defined Immobilization of Biomolecules on Glass Surfaces Using "Caged" Biotin." <i>Bioconjugate Chem.</i> 7: 317-321 (1996).
	C48*	Rawlinson et al., "Analysis of the Complete DNA Sequence of Murine Cytomegalovirus." <i>Journal of Virology</i> 8833-8849 (1996).
	C49*	Ribeiro et al., "Immobilization of Luciferase from a Firefly Lantern Extract on Glass Strips as an Alternative Strategy for Luminescent Detection of ATP." <i>J. Biolumin Chemilumin</i> 13: 371-378 (1998).
	C50*	Ronaghi et al., "Real-Time DNA Sequencing Using Detection of Pyrophosphate Release." <i>Analytical Biochemistry</i> 242: 84-89 (1996).
	C51*	Ronaghi et al., "A Sequencing Method Based on Real-Time Pyrophosphate." <i>Science</i> 281: 363. 365 (1998).
	C52*	Ronaghi et al., "Analyses of Secondary Structures in DNA by Pyrosequencing." <i>Analytical Biochemistry</i> 267: 65-71 (1999).
	C53*	Ronaghi, "Pyrosequencing: A Tool for Sequence-Based DNA Analysis." <i>Royal Institute of Technology Department of Technology</i> .
	C54*	Service, "Microchip Arrays Put DNA on the Spot." <i>Science</i> 282(5388).
	C55*	Venter et al., "Shotgun Sequencing of the Human Genome." <i>Science</i> 280(5369): 1540
	C56*	Walker et al., "Strand displacement amplification - an isothermal, in vitro DNA amplification technique." <i>Nucleic Acids Research</i> 20(7): 1691-1696 (1992).
	C57*	Walker et al., "Isothermal in vitro amplification of DNA by a restriction enzyme/DNA polymerase system." <i>Proc. Natl. Acad.</i> 89: 392-396 (1992).
	C58*	Wang et al., "Specific Immobilization of Firefly Luciferase through a Biotin Carboxyl Carrier Protein Domain." <i>Analytical Biochemistry</i> 246: 133-139 (1997).
	C59*	Wang et al., "Large-Scale Identification, Mapping, and Genotyping of Single-Nucleotide

OTHER NON PATENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
		Polymorphisms in the Human Genome." Science 280: 1077-1082 (1998).
	C60*	Wang et al., "Force and Velocity Measured for single Molecules of RNA Polymerase." Science 282: 902-907 (1998).
	C61*	Weisiger, "Impact of Extracellular Diffusion on Hepatic Uptake Kinetics." ASTRACT: 1-26.
	C62*	Wooster et al., "Localization of a Breast Cancer Susceptibility Gene, BRCA2, to Chromosome 13q12-13." Science 265: 277-285 (1994).
	C63*	Xie and Lu, "Single-molecule Enzymology." The Journal of Biological Chemistry 274(23): 15967-15970 (1999).
	C64*	Yin et al., "Transcription Against an Applied Force." Science 270: 1653-1657.
	C65*	Nyren, "Enzymatic Method for Continuous Monitoring of DNA Polymerase Activity." Analytical Biochemistry 167: 235-238 (1987).
	C66**	International Search Report for PCT/US00/25290, mailed November 28, 2001.
	C67	Hoheisel, J.D. "Oligomer-chip Technology." Trends in Biotechnology 15: 465-469 (1997).
	C68	International Preliminary Examination Report for PCT/US02/08700
	C69	Mitra and Church (1999). Nuc. Acids Res. 27(e34): i-vi.
	C70	Tawfik and Griffiths (1998). Nature Biotechnol. 16: 652-656.
	C71	International Search Report for PCT/US02/08700, mailed July 12, 2002.
	C72	Pantano et al. "Ordered Nanowell Arrays" Chemistry of Materials, 8: 2832-2835.

* a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, U.S.S.N. 09/398,833, now U.S. Patent No. 6,274,320, filed September 16, 1999, and relied upon for an earlier filing date under 35 U.S.C. §120 (continuation, continuation-in-part, and divisional applications).

** a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, U.S.S.N. 09/664,197, filed September 18, 2000, since abandoned, and relied upon for an earlier filing date under 35 U.S.C. §120 (continuation, continuation-in-part, and divisional applications).

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.

Include copy of this form with next communication to applicant.